

WHAT IS CLAIMED IS:

1 1. A thermostent for insertion into the lumen, having a mesh
2 tubular form made of a heat-treated, magnetic material, which can generate heat
3 by itself in response to the application of an external magnetic field thereto.

1 2. The thermostent as set forth in claim 1, wherein the material
2 is selected from the group consisting of duplex stainless steel, nickel-copper alloy,
3 iron-nickel alloy, palladium-cobalt alloy, and palladium-nickel alloy.

1 3. The thermostent as set forth in claim 1, wherein the material
2 is thermally treated at 200-1,500 °C.

1 4. The thermostent as set forth in claim 1, wherein the stent has
2 a maximal heating temperature of 30-200°C.

1 5. The thermostent as set forth in claim 1, wherein the heat-
2 treated magnetic material is wound on a peripheral surface of a shape memory
3 alloy in a mesh form.

1 6. A thermocoil for insertion into the lumen, having a spiral
2 form made of thermally treated, magnetic wire material, which functions to
3 generate heat by itself in response to the application of an external magnetic field
4 thereto and to block blood flow when being inserted into blood vessels.

1 7. The thermocoil as set forth in claim 6, wherein the material
2 is selected from the group consisting of duplex stainless steel, nickel-copper alloy,
3 iron-nickel alloy, palladium-cobalt alloy, and palladium-nickel alloy.

1 8. The thermocoil as set forth in claim 6, wherein the material
2 is thermally treated at 200-1,500°C.

1 9. The thermocoil as set forth in claim 6, wherein the thermo-
2 coil has a maximal heating temperature of 30-200°C.

1 10. The thermocoil as set forth in claim 6, wherein the heat-
2 treated magnetic material has pili bonded thereto.

1 11. A thermoguide wire for insertion into the lumen, having a
2 coil form made of thermally treated, magnetic wire material, which generates heat
3 by itself in response to the application of an external magnetic field thereto.

1 12. The thermoguide wire as set forth in claim 11, wherein the
2 material is selected from the group consisting of duplex stainless steel, nickel-
3 copper alloy, iron-nickel alloy, palladium-cobalt alloy, and palladium-nickel alloy.

1 13. The thermoguide wire as set forth in claim 11, wherein the
2 material is thermally treated at 200-1,500°C.

1 14. The thermoguide wire as set forth in claim 11, wherein the
2 thermo-guide wire has a maximal heating temperature of 30-200°C.